

## Waste Disposal Interpretations

### ***Sanitary Facilities***

The nature of the soil is important in selecting sites for sanitary facilities, and in identifying limiting soil properties and site features to be considered in planning, design, and installation. Soil limitations ratings of slight, moderate, or severe are given for septic tank absorption fields, sewage lagoons, and trench and area type sanitary landfills. Soil suitability ratings of good, fair, and poor are given for daily cover for landfills. Limitations or suitability terms used in this subsection are as follows:

**SLIGHT** (or Good) - relatively free of limitations or limitations are easily overcome.

**MODERATE** (or Fair) - limitations need to be recognized, but usually can be overcome with good management or special design.

**SEVERE** (or Poor or Very Poor) - limitations are difficult or impractical to overcome.

### ***Sanitary Facility Type***

**SEPTIC TANK ABSORPTION FIELDS** are subsurface systems of tile or perforated pipe that distribute effluent from a septic tank into the natural soil. The centerline depth of the tile is assumed to be at a depth of 24 inches. Only the soil between depths of 24 and 60 inches is considered in making the ratings. The soil properties and site features considered are those that affect the absorption of the effluent, those that affect the construction and maintenance of the system, and those that may affect public health.

**SEWAGE LAGOONS** are shallow ponds constructed to hold sewage while aerobic bacteria decompose the solid and liquid wastes. Lagoons have a nearly level floor surrounded by cut slopes or embankments of compacted, relatively impervious soil material.

**AEROBIC LAGOONS** generally are designed so that the depth of sewage is 2 to 5 feet. Relatively impervious soil for the lagoon floor and sides is desirable to minimize seepage and contamination of local ground water.

**SANITARY LANDFILL (TRENCH)** is a method of disposing of solid waste by placing refuse in successive layers in an excavated trench. The waste is spread, compacted, and covered daily with a thin layer of soil that is excavated from the trench. When the trench is full, a final cover of soil material at least 2 feet thick is placed over the landfill. Properties that influence risk of pollution, ease of excavation, trafficability, and revegetation are major considerations.

**SANITARY LANDFILL (AREA)** is a method of disposing of solid waste by placing refuse in successive layers on the surface of the soil. The waste is spread, compacted, and covered daily with a thin layer of soil that is imported from a source away from the site. A final cover of soil at least 2 feet thick is placed over the completed landfill. Properties

that influence trafficability, revegetation, and risk of pollution are the main considerations for area type sanitary landfills.

**DAILY COVER FOR LANDFILL** is the sod material that is applied daily to compacted solid waste in an area type sanitary landfill. The cover material is obtained off-site, transported, and spread on the area. Suitability of a soil for use as cover is based on properties that reflect workability and the ease of digging and of moving and spreading the material over the refuse daily during both wet and dry periods.

### ***Waste Management***

The nature of the soil is also important in the application of organic wastes and wastewater to land as fertilizers and irrigation; it is also important when the soil is used as a medium for treatment and disposal of these wastes. Favorable soil properties are required to prevent environmental damage.

The use of organic wastes and wastewater as production resources will result in energy conservation, prevent the waste of these important resources, and prevent problems associated with their disposal. Where disposal is the goal, and a maximum amount is disposed in a minimum area to hold costs to a minimum, risk of environmental damage is the principal constraint. Where the reuse goal is pursued, and a minimum amount is applied to a maximum area to obtain the greatest benefit, environmental damage is unlikely.

*This section includes:*

- **(a) Sanitary Facilities**
- **(a) Waste Management**

Knox, Monroee, and Shelby County, Missouri: Detailed Soil Map Legend

Sanitary Facilities

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.00 to 1.00. The larger the value, the greater the potential limitation. See text for further explanation of ratings in this table.)

Map symbol and soil name	Septic tank absorption field		Sewage lagoons		Sanitary landfill (trench)		Sanitary landfill (area)		Daily cover for landfill	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Ar: Arbela-----	Very limited ~wetness (very limited) ~flooding (very limited) ~percs slowly (limited)	1.00 1.00 0.71	Very limited ~flooding (very limited) ~wetness (very limited) ~seepage (moderately limited)	1.00 1.00 0.50	Very limited ~wetness (very limited) ~flooding (very limited) ~too clayey (moderately limited)	1.00 1.00 0.60	Very limited ~flooding (very limited) ~wetness (very limited)	1.00 1.00	Very limited ~wetness (very limited) ~too clayey (moderately limited)	1.00 0.30
AtC: Armstrong-----	Very limited ~wetness (very limited) ~percs slowly (limited)	1.00 0.93	Very limited ~wetness (very limited) ~slope (very limited)	1.00 1.00	Limited ~wetness (limited) ~too clayey (limited)	0.79 0.76	Limited ~wetness (limited)	0.60	Limited ~hard to pack (limited) ~too clayey (moderately limited) ~wetness (moderately limited)	0.70 0.54 0.40
AtD2: Armstrong-----	Very limited ~wetness (very limited) ~percs slowly (limited) ~slope (limited)	1.00 0.93 0.63	Very limited ~slope (very limited) ~wetness (very limited)	1.00 1.00	Limited ~wetness (limited) ~too clayey (limited) ~slope (limited)	0.79 0.76 0.63	Limited ~slope (limited) ~wetness (limited)	0.63 0.60	Limited ~hard to pack (limited) ~slope (limited) ~too clayey (moderately limited)	0.70 0.63 0.54
Au: Auxvasse-----	Very limited ~wetness (very limited) ~percs slowly (very limited) ~flooding (rare) (moderately limited)	1.00 1.00 0.60	Very limited ~wetness (very limited)	1.00	Very limited ~wetness (very limited) ~too clayey (limited) ~flooding (rare) (moderately limited)	1.00 0.85 0.60	Limited ~wetness (limited) ~flooding (rare) (moderately limited)	0.99 0.60	Limited ~too clayey (limited) ~wetness (moderately limited)	0.70 0.60

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Map symbol and soil name	Septic tank absorption field		Sewage lagoons		Sanitary landfill (trench)		Sanitary landfill (area)		Daily cover for landfill	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Bk: Blackoar-----	Very limited ~flooding (very limited) ~wetness (very limited) ~percs slowly (slightly limited)	1.00 1.00 0.25	Very limited ~flooding (very limited) ~wetness (very limited) ~seepage (moderately limited)	1.00 1.00 0.50	Very limited ~flooding (very limited) ~wetness (very limited)	1.00 1.00	Very limited ~flooding (very limited) ~wetness (limited)	1.00 0.99	Moderately limited ~wetness (moderately limited)	0.60
Bp: Borrow pits----	Not rated		Not rated		Not rated		Not rated		Not rated	
CaB: Calwoods-----	Very limited ~wetness (very limited) ~percs slowly (very limited)	1.00 1.00	Very limited ~wetness (very limited) ~slope (moderately limited)	1.00 0.31	Very limited ~wetness (very limited) ~too clayey (limited) ~too acid (slightly limited)	1.00 0.85 0.30	Limited ~wetness (limited)	0.99	Limited ~hard to pack (limited) ~too clayey (limited) ~wetness (moderately limited)	0.70 0.70 0.60
Ch: Chariton-----	Very limited ~wetness (very limited) ~percs slowly (limited) ~flooding (rare) (moderately limited)	1.00 0.93 0.60	Very limited ~wetness (very limited) ~seepage (moderately limited)	1.00 0.50	Very limited ~wetness (very limited) ~too clayey (limited) ~flooding (rare) (moderately limited)	1.00 0.88 0.60	Limited ~wetness (limited) ~flooding (rare) (moderately limited)	0.99 0.60	Limited ~too clayey (limited) ~hard to pack (limited) ~wetness (moderately limited)	0.76 0.70 0.60
Cm: Chequest-----	Very limited ~flooding (very limited) ~wetness (very limited) ~percs slowly (limited)	1.00 1.00 0.71	Very limited ~flooding (very limited) ~wetness (very limited)	1.00 1.00	Very limited ~flooding (very limited) ~wetness (limited) ~too clayey (moderately limited)	1.00 0.99 0.51	Very limited ~flooding (very limited) ~wetness (limited)	1.00 0.80	Limited ~hard to pack (limited) ~wetness (moderately limited) ~too clayey (slightly limited)	0.70 0.50 0.26

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Map symbol and soil name	Septic tank absorption field		Sewage lagoons		Sanitary landfill (trench)		Sanitary landfill (area)		Daily cover for landfill	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Cp: Clay pits-----	Not rated		Not rated		Not rated		Not rated		Not rated	
Fa: Fatima-----	Very limited ~flooding (very limited) ~wetness (moderately limited) ~percs slowly (slightly limited)	1.00  0.60  0.25	Very limited ~flooding (very limited) ~wetness (limited) ~seepage (moderately limited)	1.00  0.71  0.50	Very limited ~flooding (very limited) ~wetness (slightly limited)	1.00  0.30	Very limited ~flooding (very limited)	1.00	Not limited	
GaD: Gara-----	Limited ~percs slowly (limited) ~slope (limited)	0.71  0.63	Very limited ~slope (very limited)	1.00	Limited ~slope (limited) ~too clayey (slightly limited)	0.63  0.17	Limited ~slope (limited)	0.63	Limited ~slope (limited) ~too clayey (slightly limited)	0.63  0.05
GaE: Gara-----	Very limited ~slope (very limited) ~percs slowly (limited)	1.00  0.71	Very limited ~slope (very limited)	1.00	Very limited ~slope (very limited) ~too clayey (slightly limited)	1.00  0.17	Very limited ~slope (very limited)	1.00	Very limited ~slope (very limited) ~too clayey (slightly limited)	1.00  0.05
GfB: Gifford-----	Very limited ~wetness (very limited) ~percs slowly (very limited) ~flooding (rare) (moderately limited)	1.00  1.00  0.60	Very limited ~wetness (very limited) ~seepage (very limited) ~slope (moderately limited)	1.00  1.00  0.31	Very limited ~wetness (very limited) ~too clayey (limited) ~seepage (limited)	1.00  0.80  0.79	Limited ~wetness (limited) ~flooding (rare) (moderately limited)	0.99  0.60	Moderately limited ~wetness (moderately limited) ~too clayey (moderately limited)	0.60  0.60

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Map symbol and soil name	Septic tank absorption field		Sewage lagoons		Sanitary landfill (trench)		Sanitary landfill (area)		Daily cover for landfill	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
GfC: Gifford-----	Very limited ~wetness (very limited) ~percs slowly (very limited) ~flooding (rare) (moderately limited)	1.00 1.00 0.60	Very limited ~wetness (very limited) ~seepage (very limited) ~slope (very limited)	1.00 1.00 1.00	Very limited ~wetness (very limited) ~too clayey (limited) ~seepage (limited)	1.00 0.80 0.79	Limited ~wetness (limited) ~flooding (rare) (moderately limited)	0.99 0.60	Moderately limited ~wetness (moderately limited) ~too clayey (moderately limited)	0.60 0.60
GoC2: Gorin-----	Very limited ~percs slowly (very limited) ~wetness (moderately limited)	1.00 0.60	Very limited ~slope (very limited) ~wetness (limited)	1.00 0.71	Limited ~too clayey (limited) ~wetness (slightly limited)	0.75 0.30	Not limited		Limited ~hard to pack (limited) ~too clayey (moderately limited)	0.70 0.53
GpC: Gosport-----	Very limited ~wetness (very limited) ~percs slowly (very limited) ~depth to bedrock (limited)	1.00 1.00 0.63	Very limited ~wetness (very limited) ~slope (very limited) ~depth to bedrock (limited)	1.00 1.00 0.63	Very limited ~depth to bedrock (very limited) ~wetness (limited) ~too clayey (limited)	1.00 0.89 0.76	Limited ~wetness (limited) ~depth to bedrock (moderately limited)	0.69 0.47	Limited ~hard to pack (limited) ~too acid (moderately limited) ~too clayey (moderately limited)	0.70 0.54 0.54
GpD: Gosport-----	Very limited ~wetness (very limited) ~percs slowly (very limited) ~slope (limited)	1.00 1.00 0.63	Very limited ~slope (very limited) ~wetness (very limited) ~depth to bedrock (limited)	1.00 1.00 0.63	Very limited ~depth to bedrock (very limited) ~wetness (limited) ~too clayey (limited)	1.00 0.89 0.76	Limited ~wetness (limited) ~slope (limited) ~depth to bedrock (moderately limited)	0.69 0.63 0.47	Limited ~hard to pack (limited) ~slope (limited) ~too acid (moderately limited)	0.70 0.63 0.54

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	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
GpE: Gosport-----	Very limited ~wetness (very limited)	1.00	Very limited ~slope (very limited)	1.00	Very limited ~depth to bedrock (very limited)	1.00	Very limited ~slope (very limited)	1.00	Very limited ~slope (very limited)	1.00
	~percs slowly (very limited)	1.00	~wetness (very limited)	1.00	~slope (very limited)	1.00	~wetness (limited)	0.69	~hard to pack (limited)	0.70
	~slope (very limited)	1.00	~depth to bedrock (limited)	0.63	~wetness (limited)	0.89	~depth to bedrock (moderately limited)	0.47	~too acid (moderately limited)	0.54
GsF: Goss-----	Very limited ~slope (very limited)	1.00	Very limited ~slope (very limited)	1.00	Very limited ~slope (very limited)	1.00	Very limited ~slope (very limited)	1.00	Very limited ~slope (very limited)	1.00
	~percs slowly (slightly limited)	0.25	~seepage (moderately limited)	0.50	~too clayey (very limited)	1.00			~too clayey (very limited)	1.00
	~large stones (slightly limited)	0.19	~large stones (slightly limited)	0.19	~large stones (slightly limited)	0.20			~small stones (moderately limited)	0.58
KeC2: Keswick-----	Very limited ~wetness (very limited)	1.00	Very limited ~wetness (very limited)	1.00	Limited ~wetness (limited)	0.79	Limited ~wetness (limited)	0.60	Limited ~hard to pack (limited)	0.70
	~percs slowly (limited)	0.93	~slope (very limited)	1.00	~too clayey (limited)	0.75			~too clayey (moderately limited)	0.53
					~too acid (slightly limited)	0.12			~wetness (moderately limited)	0.40
KeD2: Keswick-----	Very limited ~wetness (very limited)	1.00	Very limited ~slope (very limited)	1.00	Limited ~wetness (limited)	0.79	Limited ~slope (limited)	0.63	Limited ~hard to pack (limited)	0.70
	~percs slowly (limited)	0.93	~wetness (very limited)	1.00	~too clayey (limited)	0.75	~wetness (limited)	0.60	~slope (limited)	0.63
	~slope (limited)	0.63			~slope (limited)	0.63			~too clayey (moderately limited)	0.53

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Map symbol and soil name	Septic tank absorption field		Sewage lagoons		Sanitary landfill (trench)		Sanitary landfill (area)		Daily cover for landfill	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Kk: Kickapoo-----	Very limited ~flooding (very limited) ~wetness (moderately limited) ~percs slowly (slightly limited)	1.00  0.60  0.25	Very limited ~flooding (very limited) ~wetness (limited) ~seepage (moderately limited)	1.00  0.71  0.50	Very limited ~flooding (very limited) ~wetness (slightly limited)	1.00  0.30	Very limited ~flooding (very limited)	1.00	Not limited	
KlB: Kilwinning-----	Very limited ~wetness (very limited) ~percs slowly (limited)	1.00  0.93	Very limited ~wetness (very limited) ~seepage (moderately limited) ~slope (moderately limited)	1.00  0.50  0.31	Very limited ~wetness (very limited) ~too clayey (limited)	1.00  0.70	Limited ~wetness (limited)	0.90	Moderately limited ~wetness (moderately limited) ~too clayey (moderately limited)	0.55  0.45
LcC2: Leonard-----	Very limited ~wetness (very limited) ~percs slowly (limited)	1.00  0.93	Very limited ~wetness (very limited) ~slope (very limited)	1.00  1.00	Very limited ~wetness (very limited) ~too clayey (limited)	1.00  0.65	Very limited ~wetness (very limited)	1.00	Limited ~wetness (limited) ~hard to pack (limited) ~too clayey (moderately limited)	0.99  0.70  0.38
LcD2: Leonard-----	Very limited ~wetness (very limited) ~percs slowly (limited) ~slope (limited)	1.00  0.93  0.63	Very limited ~slope (very limited) ~wetness (very limited)	1.00  1.00	Very limited ~wetness (very limited) ~too clayey (limited) ~slope (limited)	1.00  0.65  0.63	Very limited ~wetness (very limited) ~slope (limited)	1.00  0.63	Limited ~wetness (limited) ~hard to pack (limited) ~slope (limited)	0.99  0.70  0.63



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Map symbol and soil name	Septic tank absorption field		Sewage lagoons		Sanitary landfill (trench)		Sanitary landfill (area)		Daily cover for landfill	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
LdE: Lindley-----	Very limited ~slope (very limited) ~percs slowly (limited)	1.00  0.71	Very limited ~slope (very limited)	1.00	Very limited ~slope (very limited) ~too clayey (slightly limited)	1.00  0.11	Very limited ~slope (very limited)	1.00	Very limited ~slope (very limited)	1.00
LdF: Lindley-----	Very limited ~slope (very limited) ~percs slowly (limited)	1.00  0.71	Very limited ~slope (very limited)	1.00	Very limited ~slope (very limited) ~too clayey (slightly limited)	1.00  0.11	Very limited ~slope (very limited)	1.00	Very limited ~slope (very limited)	1.00
MaA: Marion-----	Very limited ~wetness (very limited) ~percs slowly (very limited)	1.00  1.00	Very limited ~wetness (very limited)	1.00	Very limited ~wetness (very limited) ~too clayey (limited) ~too acid (moderately limited)	1.00  0.88 0.42	Limited ~wetness (limited)	0.90	Limited ~too clayey (limited) ~wetness (moderately limited) ~too acid (moderately limited)	0.76  0.55 0.42
MaB: Marion-----	Very limited ~wetness (very limited) ~percs slowly (very limited)	1.00  1.00	Very limited ~wetness (very limited) ~slope (moderately limited)	1.00  0.31	Very limited ~wetness (very limited) ~too clayey (limited) ~too acid (moderately limited)	1.00  0.88 0.42	Limited ~wetness (limited)	0.90	Limited ~too clayey (limited) ~wetness (moderately limited) ~too acid (moderately limited)	0.76  0.55 0.42

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Map symbol and soil name	Septic tank absorption field		Sewage lagoons		Sanitary landfill (trench)		Sanitary landfill (area)		Daily cover for landfill	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
MeB: Mexico-----	Very limited ~wetness (very limited) ~percs slowly (very limited)	1.00 1.00	Very limited ~wetness (very limited) ~slope (moderately limited)	1.00 0.31	Limited ~too clayey (limited) ~wetness (limited)	0.90 0.79	Limited ~wetness (limited)	0.60	Limited ~too clayey (limited) ~hard to pack (limited) ~wetness (moderately limited)	0.79 0.70 0.40
MeB2: Mexico-----	Very limited ~wetness (very limited) ~percs slowly (very limited)	1.00 1.00	Very limited ~wetness (very limited) ~slope (moderately limited)	1.00 0.31	Limited ~too clayey (limited) ~wetness (limited)	0.90 0.79	Limited ~wetness (limited)	0.60	Limited ~too clayey (limited) ~hard to pack (limited) ~wetness (moderately limited)	0.79 0.70 0.40
Mo: Moniteau-----	Very limited ~flooding (very limited) ~wetness (very limited) ~percs slowly (limited)	1.00 1.00 0.71	Very limited ~flooding (very limited) ~wetness (very limited)	1.00 1.00	Very limited ~flooding (very limited) ~wetness (limited) ~too clayey (slightly limited)	1.00 0.99 0.15	Very limited ~flooding (very limited) ~wetness (limited)	1.00 0.80	Moderately limited ~wetness (moderately limited) ~too clayey (slightly limited)	0.50 0.03
Po: Piopolis-----	Very limited ~flooding (very limited) ~wetness (very limited) ~percs slowly (limited)	1.00 1.00 0.93	Very limited ~flooding (very limited) ~wetness (very limited)	1.00 1.00	Very limited ~flooding (very limited) ~wetness (limited) ~too acid (slightly limited)	1.00 0.99 0.30	Very limited ~flooding (very limited) ~wetness (limited)	1.00 0.80	Moderately limited ~wetness (moderately limited) ~too acid (slightly limited) ~too clayey (slightly limited)	0.50 0.30 0.03

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Map symbol and soil name	Septic tank absorption field		Sewage lagoons		Sanitary landfill (trench)		Sanitary landfill (area)		Daily cover for landfill	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Pu: Putnam-----	Very limited ~wetness (very limited) ~percs slowly (very limited)	1.00  1.00	Very limited ~wetness (very limited)	1.00	Very limited ~wetness (very limited) ~too clayey (limited)	1.00  0.88	Limited ~wetness (limited)	0.99	Limited ~too clayey (limited) ~hard to pack (limited) ~wetness (moderately limited)	0.76  0.70  0.60
Qu: Rock quarry----	Not rated		Not rated		Not rated		Not rated		Not rated	
Rk: Rock land-----	Not rated		Not rated		Not rated		Not rated		Not rated	
Sm: Strip mine-----	Not rated		Not rated		Not rated		Not rated		Not rated	
VgB: Vigar-----	Very limited ~wetness (very limited) ~percs slowly (limited)	1.00  0.71	Very limited ~wetness (very limited) ~slope (moderately limited)	1.00  0.31	Limited ~wetness (limited) ~too clayey (slightly limited)	0.79  0.09	Limited ~wetness (limited)	0.60	Moderately limited ~wetness (moderately limited)	0.40
W: Water-----	Not rated		Not rated		Not rated		Not rated		Not rated	

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Map symbol and soil name	Septic tank absorption field		Sewage lagoons		Sanitary landfill (trench)		Sanitary landfill (area)		Daily cover for landfill	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Wa: Wabash-----	Very limited		Very limited		Very limited		Very limited		Limited	
	~wetness	1.00	~flooding	1.00	~flooding	1.00	~flooding	1.00	~wetness	0.99
	(very limited)		(very limited)		(very limited)		(very limited)		(limited)	
	~flooding	1.00	~wetness	1.00	~wetness	1.00	~wetness	1.00	~hard to pack	0.70
	(very limited)		(very limited)		(very limited)		(very limited)		(limited)	
	~percs slowly	1.00			~too clayey	0.80			~too clayey	0.60
	(very limited)				(limited)				(moderately limited)	